

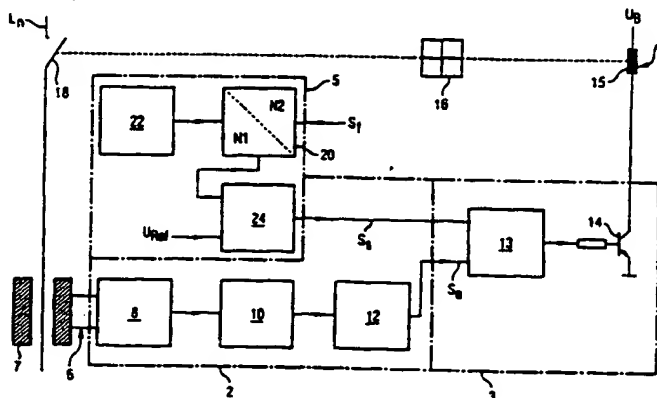
## INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International patent classification <sup>6</sup> :  H02H 3/33	A1	(11) International publication number: WO 99/54977  (43) International publication date: 28 October 1999 (28.10.99)
(21) International application number: PCT/DE99/01074 (22) International filing date: 9 April 1999 (09.04.99) (30) Data relating to the priority: 198 18 054.3 22 April 1998 (22.04.98) DE (71) Applicant (for all designated States except US): SIEMENS AKTIENGESELLSCHAFT [DE/DE]; Wittelsbacherplatz 2, D-80333 Munich (DE) (72) Inventors; and (75) Inventors/Applicants (US only): BAUER, Bernhard [DE/DE]; Friedenstrasse 17, D-93053 Regensburg (DE). SCHMID, Reinhard (DE/DE); Neuprüll 20, D-93051 Regensburg (DE). (74) Joint Representative: SIEMENS AKTIENGESELLSCHAFT; Postfach 22 16 34, D-80506 Munich (DE).		(81) Designated states: US, European Patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE).  <b>Published</b> With the International Search Report. Before expiry of the period provided for amending the claims, will be republished if such amendments are received.

As printed

(54) Title: POWER CIRCUIT-BREAKER

(54) Bezeichnung: SCHUTZSCHALTGERÄT



## (57) Abstract

The invention relates to a power circuit-breaker, especially a differential current circuit-breaker, comprising a summation current transformer (6) which monitors a supply network ( $L_n$ ). Said summation current transformer controls a tripping device (4) which is coupled to a breaker mechanism (16) for actuating a power switch (18). The aim of the invention is to provide a power circuit-breaker which can be remotely tripped in an easy and reliable manner. To this end, a trip circuit (5) is provided with a transformer (20) which is connected on the primary side thereof to the tripping device (4) via a control circuit (3). In addition, the transformer can be controlled on the secondary side thereof in order to effect a remote tripping, preferably by short circuiting.

## Abstract

## Protective switching device

Protective switching device, in particular differential-current circuit breaker, having a core-balance transformer (6) which monitors a line network ( $L_n$ ) and which, via a tripping circuit (2) and an actuation circuit (3), actuates a release (4) which is coupled to a switching mechanism (16) in order to operate a power breaker (18). The invention provides that a tripping circuit (5), which can be tripped by means of a remote tripping signal ( $S_f$ ), is connected to a transformer (20) which can be actuated on the secondary side and whose primary side is connected to an actuation circuit (3) of the release (4) for remote tripping of the protective switching device.

Figure 1